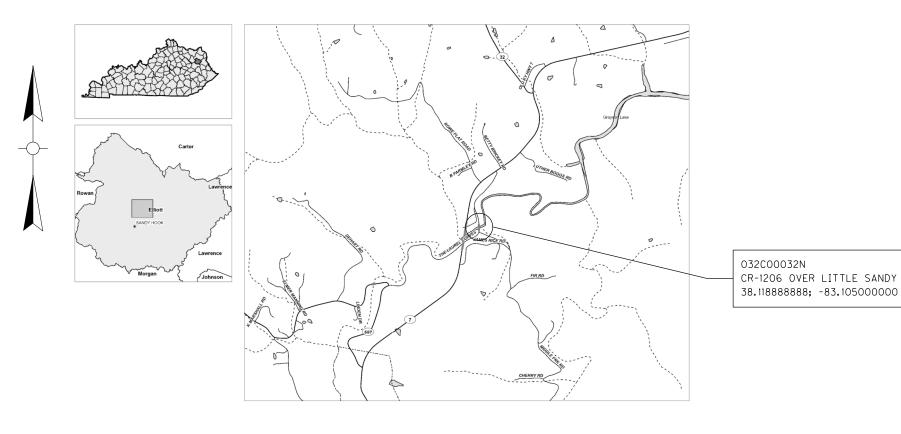
KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS BRIDGE REHABILITATION PLANS



LOCATION MAP

	INDEX OF SHEETS				
Sheet No. Description					
S1	TITLE & LOCATION MAP				
S2	GENERAL NOTES				
S3	LAYOUT				
S4	TYPICAL SECTIONS				
S5	SUBSTRUCTURE DETAILS				
S6	TRUSS				
S7	STEEL REPAIR A				
S8	STEEL REPAIR B				
S9	STEEL REPAIRS C & D				
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	SPECIAL NOTES				
Joint Seal Replacement					
Bridge Overlay Approach Pavement					
Concre	ete Coating				
Erosio	n Prevention and Sediment Control				
Traffi	c Control on Bridge Repair Projects				

Structural Steel Repair

Concrete Sealina

Utilities and Rail Certification

Heat Straightening

Cleaning and Painting Concrete Patching Repair

Bridging Kentucky Project Stencil

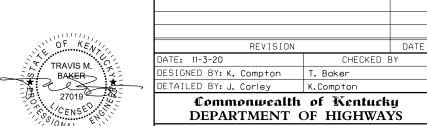
STANDARD DRAWINGS

RBI-001-12	Typical Guardrail Installations
RBR-001-13	Steel Beam Guardrail "W" Beam
RBR-005-11	Guardrail Components
RBR-010-06	Guardrail Terminal Sections
RBR-015-06	Steel Guardrail Posts
RBR-016-05	Timber Guardrail Posts
RBR-050-08	Guardrail End Treatment Type 7
RBR-055-01	Delineators for Guardrail
BHS-007-08	Railing System Type II Guardrail Treatment
BJE-001-14	Armored Edges
BJE-003	Expansion Joint Replacement 1"-3"
BJE-005	Expansion Joint Replacement General Notes
BJE-006	Expansion Joint Replacement 4" & 5"

SPECIFICATIONS

Standard Specifications for Road and Bridge Construction (Current Edition)

AASHTO LRFD Bridge Construction Specifications with



ELLIOTT

LITTLE SANDY RIVER

TITLE & LOCATION MAP

BRIDGE NUMBER 032C00032N



		STEEL REPAIR LOCATION TABLE	
[Repair	Location	Quantity
ŀ	A1	US L2 Splice (T, B, IB Int.)	3
ŀ	A2	US L3 Splice (T&B)	2
ŀ	A3	US L3' Splice (T&B)	2
ŀ	A4	US L2' Splice (T, B, OB Int., IB Int., OB Ext.)	5
ŀ	A5	DS L2 Splice (T, B, OB Ext.)	3
ŀ	A6 A7	DS L3 Splice (T, B, IB Int., OB Int.) DS L3' Splice (T&B)	2
ŀ	A	Contingency	2
ŀ		r A Total Count	2 23
ŀ		r A Total Weight (Lbs.)	1035
ı	BI	LO-L1 Stringer 5 at FB1	1
İ	B2	L1-L2 Stringer 5 at FB1	1
ı	В3	L2-L3 Stringer 5 at FB3	1
Ī	B4	L3-L4 Stringer 5 at FB3	1
Ī	B5	L4-L3' Stringer 5 at FB3'	1
Ī	В6	L3′-L2′ Stringer 1 at FB3′	1
[В7	L3′-L2′ Stringer 4 at FB3′	1
ſ	В8	L3′-L2′ Stringer 5 at FB3′	1
[В9	L2′-L1′ Stringer 2 at FB1′	1
	B10	L2′-L1′ Stringer 3 at FB1′	1
[B11	L2′-L1′ Stringer 5 at FB1′	1
[B12	L1'-L0' Stringer 1 at FB1'	1
	B13	Li'-LO' Stringer 5 at FBI'	1
Ţ	В	Contingency	4
L		r B Total Count	17
ļ		r B Total Weight (Lbs.)	3227
Ţ	С	Multiple Locations	200
ļ		r C Total Count	200
ļ		r C Total Weight (Lbs.)	N/A
-	D1	US LO-L1 Tie Plate 1 (T&B)	2
ŀ	D2	US L2-L3 Tie Plate 1(T&B)	2
-	D3	US L3-L4 Tie Plate 1 (T&B)	2
- -	D4	US L3-L4 Tie Plate 7 (B)	1
ŀ	D5	US L4-L3' Tie Plate 1 (T&B)	2
,	D6 D7	US L4-L3' Tie Plate 7 (T&B) US L3'-L2' Tie Plate 5 (T&B)	2 2
ŀ			
ŀ	D8 D9	US L1'-L0' Tie Plate 4 (B)	1
ŀ		US L1'-L0' Tie Plate 6 (T)	1
-	D10 D11	DS L1-L2 Tie Plate 4 (B) DS L1-L2 Tie Plate 5 (B)	1
, ŀ	D12	DS L2-L3 Tie Plate 1 (T&B)	2
ĺ	D12	DS L3-L4 Tie Plate 1(T&B)	2
ŀ	D13	DS L3-L4 Tie Plate 6 (B)	1
ŀ	D15	DS L3-L4 Tie Plate 7 (T&B)	2
`	D16	DS L4-L3' Tie Plate 1 (T&B)	2
ŀ	D17	DS L4-L3' Tie Plate 7 (T)	1
ŀ	D18	DS L3'-L2' Tie Plate 5 (T&B)	2
ŀ	D19	DS L2'-L1' Tie Plate 3 (B)	1
ŀ	D20	DS L1'-L0' Tie Plate 5 (T)	1
ŀ	D21	DS LI'-LO' Tie Plate 6 (T&B)	2
ı	D22	DS Railing Tie Plates at DS LO-U1(U&L)	2
ı	D23	DS Railing Tie Plates at DS U1'-LO'(U&L)	2
7	D	Contingency	4
ΜΑ		r D Total Count	41
	Repai	r D Total Weight (Lbs.)	1253
Ĩ.	E1	US L3 LLB (N)	1
7:39:38	E2	US L3'LLB (S&N)	2
~ [E3	US L1' LLB (S&N)	2
ļ	E4	DS L1LLB (S&N)	2
J	E5	DS L2 LLB (S&N)	2
္ဂါ	E6	DS L3 LLB (S&N)	2
8	E7	DS L3' LLB (S)	1
₹ -	E8	DS LI'LLB (S)	1
┋┟	E	Contingency	17
PL011ED:11/4/2020		r E Total Count	1837
ا ⊵	Repai F	r E Total Weight (Lbs.) South Portal Lower Horizontal Strut	1831
╁	Repai		1
DAIE		r F Total Weight (Lbs.)	338
- 1	G1	U2 Lower Sway Bracing Strut	1
		U3 Lower Sway Bracing Strut	i
1			
	G2		1
ń.	G2 G3	U4 Lower Sway Bracing Strut	1
'n	G2 G3 Repai	U4 Lower Sway Bracing Strut r G Total Count	1 3
'n	G2 G3 Repai	U4 Lower Sway Bracing Strut r G Total Count r G Total Weight (Lbs.)	1
'n	G2 G3 Repai Repai H	U4 Lower Sway Bracing Strut r G Total Count r G Total Weight (Lbs.) Railing	1 3 N/A
'n	G2 G3 Repai Repai H	U4 Lower Sway Bracing Strut r G Total Count r G Total Weight (Lbs.) Railing r H Total Count	1 3 N/A 2
d o	G2 G3 Repai Repai H Repai	U4 Lower Sway Bracing Strut r G Total Count r G Total Weight (Lbs.) Railing r H Total Count	1 3 N/A 2 2
'n	G2 G3 Repai Repai H Repai Repai	U4 Lower Sway Bracing Strut r G Total Count r G Total Weight (Lbs.) Railing r H Total Count r H Total Weight (Lbs.)	1 3 N/A 2 2 N/A
'n	G2 G3 Repai Repai H Repai Repai I	U4 Lower Sway Bracing Strut r G Total Count r G Total Weight (Lbs.) Railing r H Total Count r H Total Weight (Lbs.) Railing	1 3 N/A 2 2 2 N/A 130

STEEL REPAIR LOCATION LEGEND

T = Top IB = Inboard
B = Bottom OB = Outboard
S = South Side Int. = Interior
N = North Side Exterior
LB = Lower Lateral Bracing
US = Upstream L = Lower

DS = Downstream

SPECIFICATIONS: References to the Specifications are to the current Edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction including any current supplemental Specifications. All references to the AASHTO Specifications are to the current edition of the AASHTO LRFD Bridge Construction Specifications, with Interims.

ON-SITE INSPECTION: Each Contractor submitting a bid for this work shall make a thorough inspection of the project site prior to submitting a bid and shall be thoroughly familiarized with existing conditions so that work can expeditiously performed after a Contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. All claims resulting from the site conditions will not be honored by the Department of Highways.

<u>VERIFYING FIELD CONDITIONS</u>: The Contractor is not to order any materials, produce any shop drawings, or begin any construction activities until after verifying dimensions and conditions in the field. Dimensions and details shown on these Plans in relation to the existing structure shall be considered approximate. Existing plans, if available, shall not be considered accurate. It shall be the Contractor's responsibility to verify such dimensions and details in the field and to notify the Project Engineer and the Designer of any differences. Failure to notify either may delay drawing and other approvals. Thereafter make the necessary approved adjustments prior to construction or ordering materials. All Specification requirements shall remain in effect. Any variations shall not be cause for additional compensation for a change in the scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. In addition, the overrun and underrun formulas may be applied to appropriate repairs provided that the requirement of Article 104.02.02 of the Standard Specifications is satisfied. The cost of all labor, equipment, surveying, and materials necessary to verify field dimensions shall be included in the lump sum price for "Staking".

<u>PLANS OF EXISTING STRUCTURE</u>: Plans of the existing structure are not available. Existing truss superstructure is assumed to be constructed according to Standard Drawing S-70 and this drawing set has been included in the bid package as a reference. The completeness of these drawings is not guaranteed and no responsibility is assumed for their accuracy.

CONSTRUCTION LOAD: Prior to completion of Steel Repair A, the total weight of personnel, equipment, materials, tools, etc. on Span O2 shall be limited to 3 tons. Once all splice plate repairs have been completed, the total weight on Span O2 shall be limited to 15 tons. Storage of material on the bridge shall be prohibited

CONSTRUCTION IDENTIFICATION: The following stencils shall be imprinted in new concrete (or painted on steel) in accordance with the guidance outlined in the Special Note for Bridging Kentucky Project Stencil:

- Bridging Kentucky Logo
- Year
- Drawing Number
- Contractor

<u>UTILITIES</u>: Before beginning work, locate all existing utilities. Consider location of utilities shown on the drawings to be approximate and for informational purposes only. The Department does not warrant the locations and assumes no responsibility for the accuracy or completeness. The Contractor must make his own determination. Except as shown on the Plans, work around and do not disturb existing utilities.

<u>DAMAGE OUTSIDE ENVIRONMENTALLY-CLEARED AREA</u>: Any area used outside the environmentally-cleared area shall obtain full environmental approvals prior to use. Once cleared, any area that is disturbed outside of the modified environmentally-cleared area during the life of the project shall be repaired by the Contractor at his expense, should any damage result from the Contractor's actions.

GENERAL NOTES

<u>DAMAGE TO THE STRUCTURE</u>: The Contractor shall bear full responsibility and expense for repair of any and all damage to the structure, should such damage result from the Contractor's actions. The Contractor is completely responsible for the stability of the structure from the time of mobilization until after the bridge has been reopened to normal traffic following completion of all work required in the Contract. After completion of all operations, the structure and site shall be left in a condition that is in accordance with Section 105.12 of the Specifications.

<u>WELDING REINFORCEMENT</u>: The welding and welding material shall conform to the "Recommended Practices for Welding Reinforcing Steel", American Welding Society Specifications, Current Edition. No direct payment shall be made for welding or weld material, but the cost of these items shall be included in the unit price bid for the repair being completed.

<u>DISPOSAL OF MATERIALS</u>: All materials and debris removed from or beneath the bridge shall become the property of the Contractor and shall be removed from the right-of-way.

COMPLETION OF THE STRUCTURE: The Contractor is required to complete the structure in accordance with the Plans and Specifications. Material, labor, or construction operations, not otherwise specified, are to be included in the bid item most appropriate for the work involved and otherwise considered incidental to the Contract. This may include cofferdams, shoring, excavations, backfilling, removal of all or parts of the existing structure, phase construction, incidental materials, labor, or anything else required to complete the structure.

BEFORE YOU DIG: The Contractor shall be responsible for all requirements and conformation with the Underground Facility Damage Prevention Act of 1994. The Contractor will be responsible for locating any utilities on this project. Il underground utilities shall be located prior to construction. Any utilities disturbed or damaged as a result of the Contractor's operations will be repaired to the satisfaction of the utility owner at the Contractor's expense. The Contractor is advised to call (800) 752-6007 a minimum of two working days prior to excavation for information on the location of some, but not necessarily all underground utilities.

MATERIALS FOR DESIGN SPECIFICATIONS:

For Class "A" Concrete: F'C = 3,500 psiFor Class "M" Concrete: F'C = 4,000 psiFor Steel Reinforcement: FY = 60,000 psi

The Specifications, Current Edition, as designated below shall govern the following materials furnished:

<u>Material</u> Specification

Structural Steel AASHTO M270 or ASTM A709, Grade 50

Bolts F3125 Grade A325

Grout C1107

CONCRETE: Class "A" concrete is to be used in the cheek walls.

REINFORCEMENT: Dimensions shown from the face of concrete to bars are to center of bars unless otherwise shown. Spacing of bars is from center to center of bars. Any reinforcing bars designated by suffix "e" in the plans shall be epoxy coated in accordance with section 811.10 of the Standard Specifications. Any reinforcing bars designated by suffix "s" in a Bill of Reinforcement shall be considered a stirrup for purposes of bend diameters.

 $\underline{\sf EXISTING}$ STEEL REINFORCEMENT: The cost of cutting, bending, and cleaning existing steel reinforcement shall be incidental to the repair item being completed.

 $\underline{\text{BEVELED}}$ EDGES: Bevel all exposed edges $\frac{3}{4}$ unless otherwise noted.

CONCRETE COATING: Concrete coating is estimated at 1,358 SF. It is the responsibility of the Contractor to verify this estimate and bid appropriately. No payment adjustments will be made if the actual quantity is different than the estimate.

<u>CONCRETE SEALING</u>: Apply concrete sealing in accordance with the Special Note for Concrete Sealing.

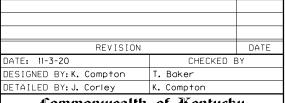
SHOP DRAWINGS: The fabricator shall submit all required shop plans, by email to SHOP_XXXXxxxxxN@docs.e-Builder.net, for review. These submissions shall depict the shop plans in .PDF format, as either II"x17" or 22"x36" sheets. Designers will make review comments on these electronic submissions as needed and, if required, shall return them to the fabricator for corrections and resubmittal. Upon acceptable reconciliation of all comments, files shall be sent to the Bridging Kentucky Shop Plan Coordinator for distribution. Only plans submitted directly to the Shop Plan Coordinator will be distributed. Additionally, only plans electronically stamped "Distributed by The Bridging Kentucky Program Team" are to be used for fabrication. While this process does not require the submission of paper copies, the Engineer of Record reserves the right to require such copies on a case by case basis.

When any changes to the design plans are proposed, the shop drawings reflecting these changes shall be submitted through the process above.

Note: The designation in the email XXXXxxxxxN refers to the Bridge ID number which is located on the Title Sheet, SLof the Bridge Plans. Example: SHOP_042B000191N@docs.e-Builder.net

<u>LEAD PAINT (RESIDUAL)</u>: The Contractor is advised to take all necessary protective measures, including worker safety and environmental regulations, when performing surface preparation and/or removal work. The Department will not consider any claims on residual lead paint.

STRUCTURAL STEEL REPAIRS: Repairs shall be completed in accordance with the attached special note and the notes and details on each plan sheet. Locations, quantities, and estimated weights (where applicable) for each repair are shown in the table on this sheet. Locations of contingency repairs will be as directed by the Engineer.



Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

ELLIOTT

CR-1206 LITTLE SANDY RIVER

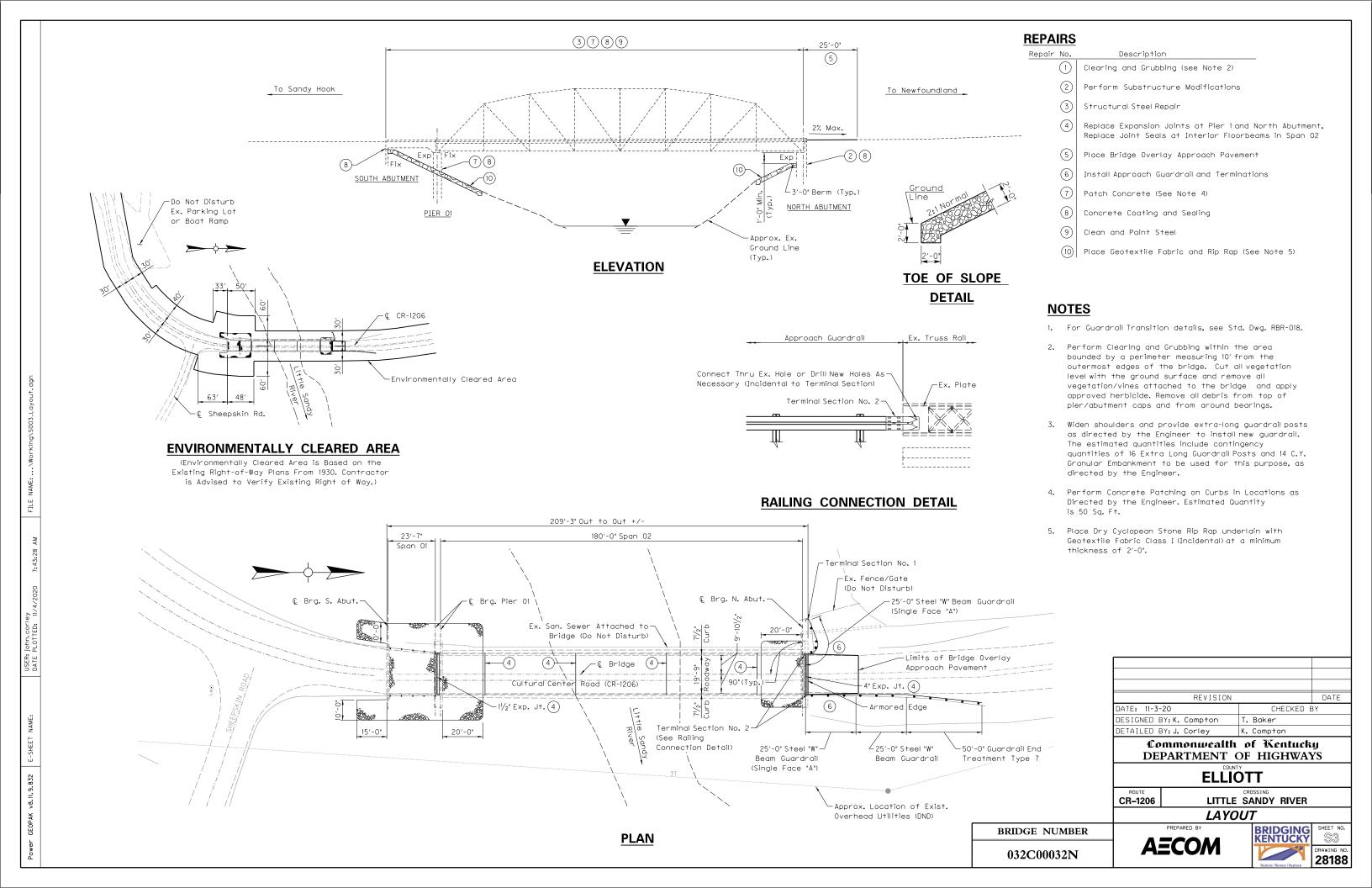
GENERAL NOTES

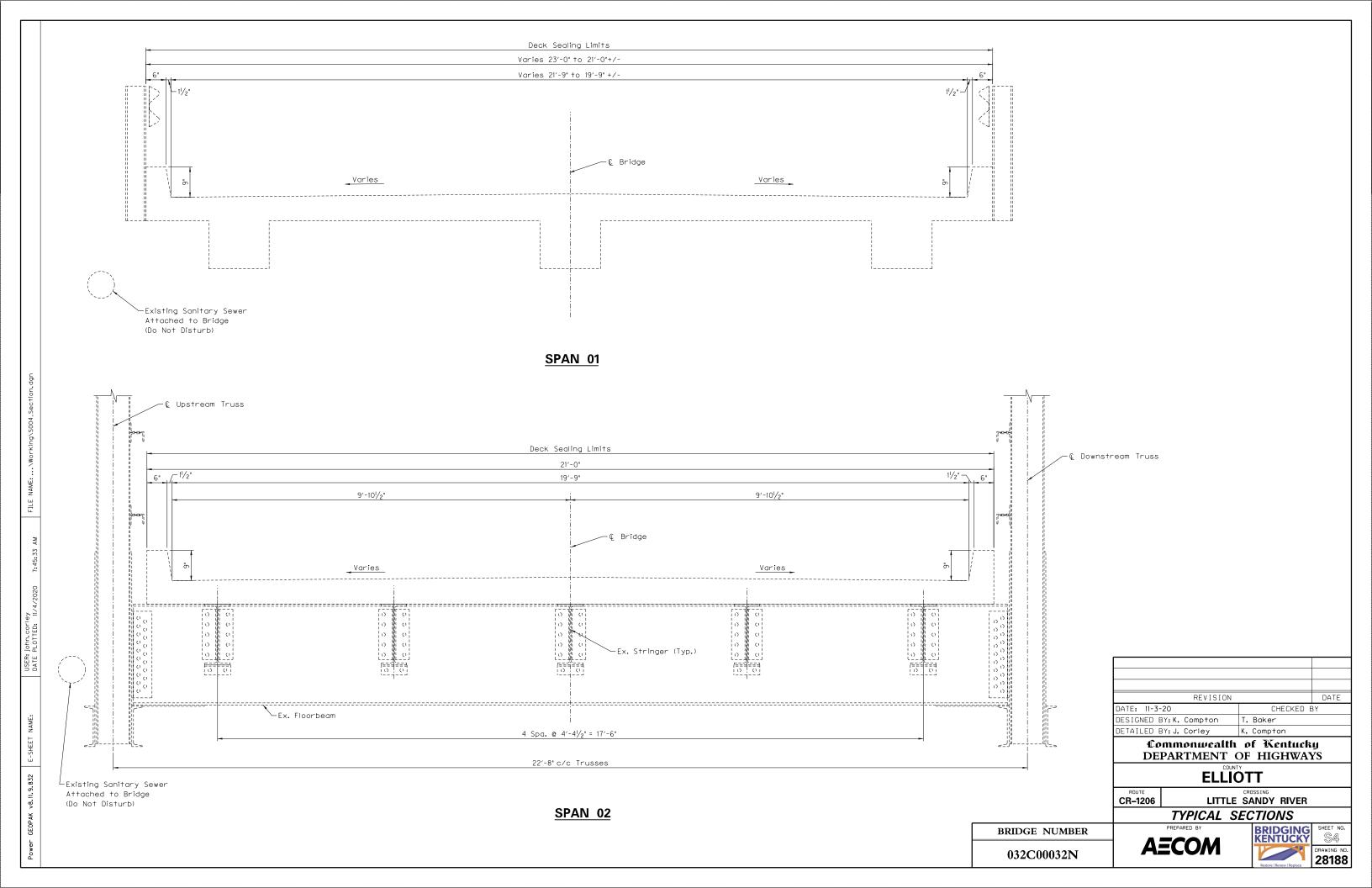
BRIDGE NUMBER

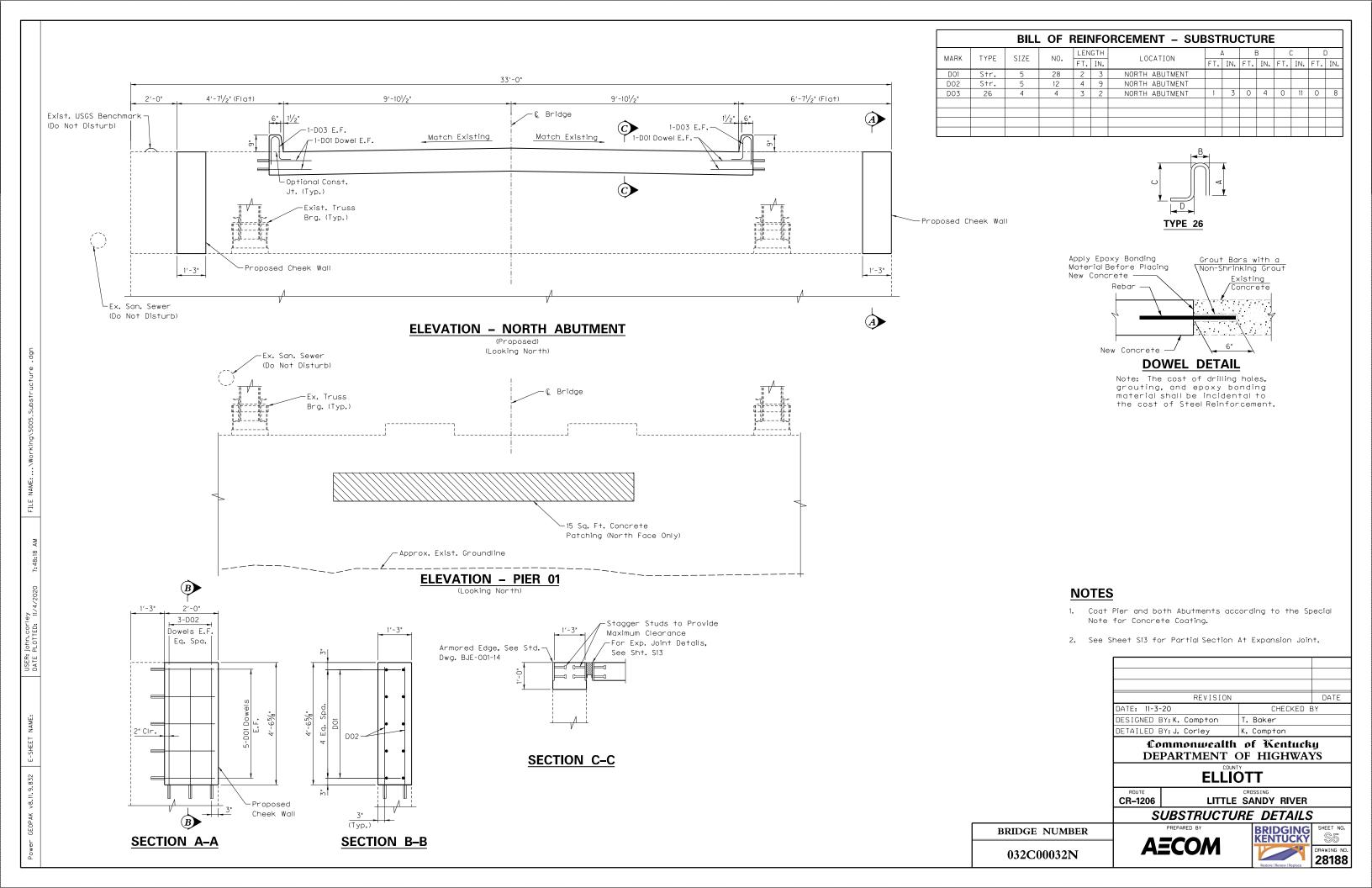
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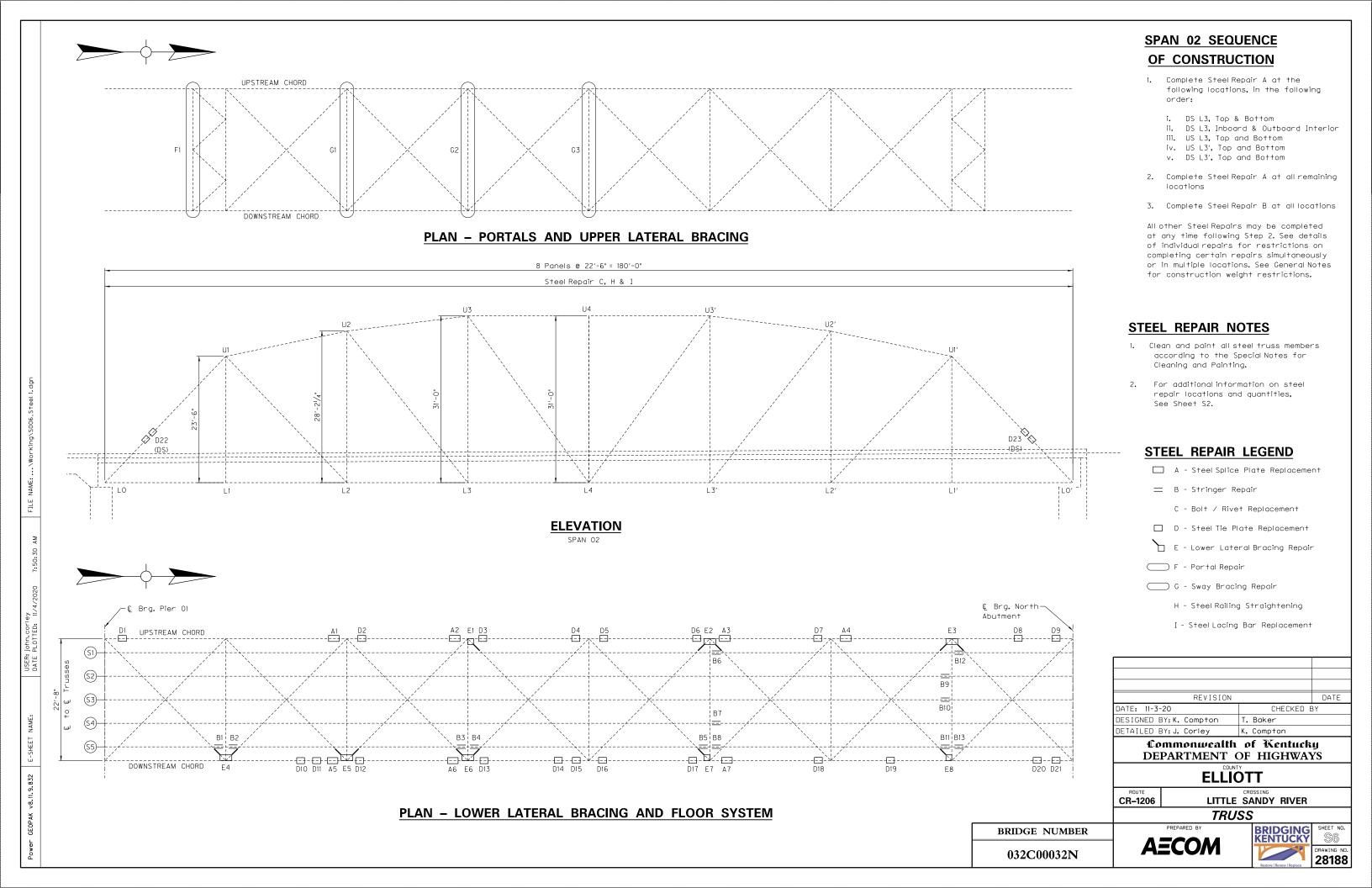


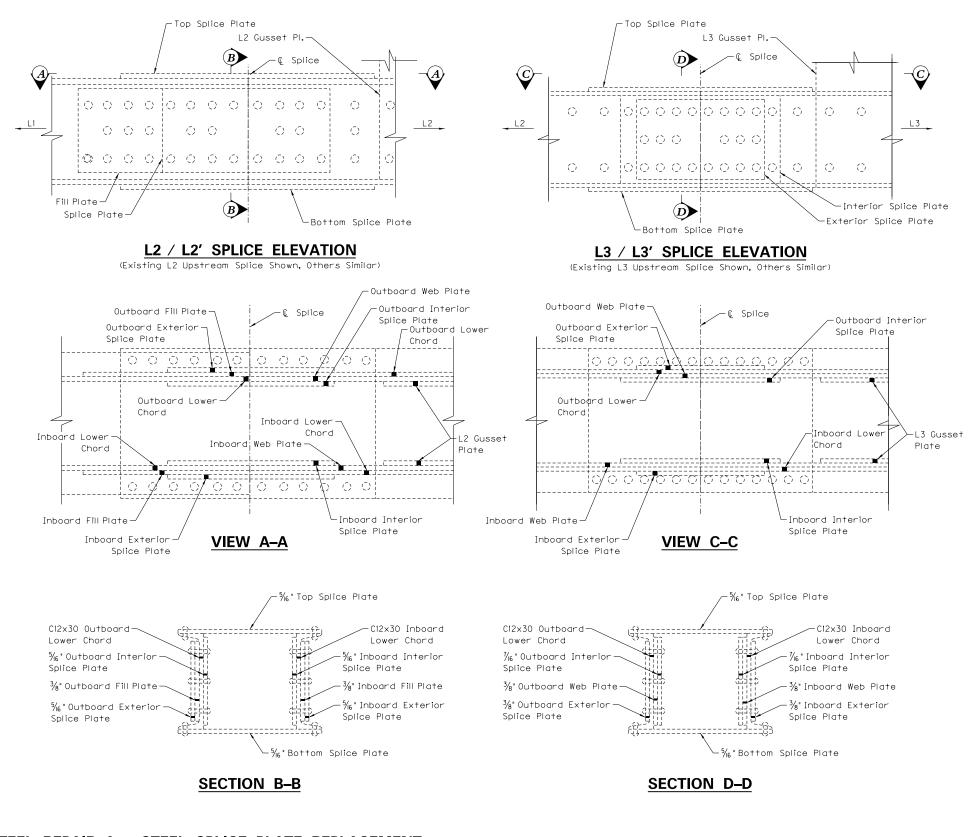












STEEL REPAIR A - STEEL SPLICE PLATE REPLACEMENT

This repair shall consist of replacement of a lower chord splice plate, in the locations noted and in accordance with the Special Note for Structural Steel Repair. Plates to be replaced are listed in the Steel Repair Table. Additional plates may be designated for repair by the Engineer in the field. One splice plate shall be completely removed and replaced prior to removal of any other rivets connecting any splice plate on the bridge. All existing fill plates shall be reused. See the General Notes for weight restrictions. Unit bid price for "Steel Splice Plate Replacement" shall include the cost of all materials, labor, falsework, equipment, and incidentals to remove and replace existing plates.

REVISION DATE

DATE: II-3-20 CHECKED BY

DESIGNED BY: K. Compton T. Baker

DETAILED BY: J. Corley K. Compton

Commonwealth of Kentucky

DEPARTMENT OF HIGHWAYS

ELLIOTT

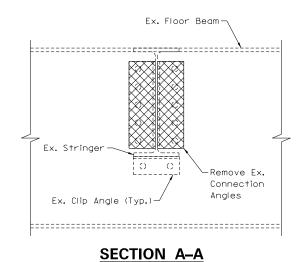
CR-1206 LITTLE SANDY RIVER

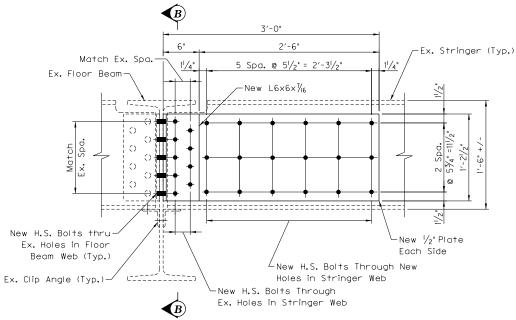
STEEL REPAIR A

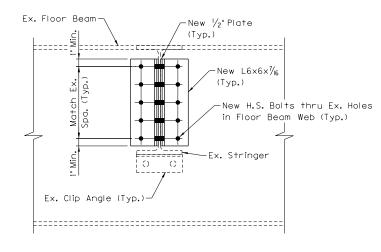
BRIDGE NUMBER

032C00032N









SECTION THRU FLOORBEAM

(Proposed)

STEEL REPAIR B - STRINGER REPAIR

This repair shall consist of repairing a stringer end as shown, in the locations noted and in accordance with the Special Note for Structural Steel Repair. Existing clip angles may not be able to temporarily support stringer ends while connection angles are removed. The contractor shall provide supplemental temporary support for the stringers as needed to complete repair and maintain stability of the stringer and cost shall be incidental to stringer repair. Locations to be repaired are listed in the Steel Repair Table on Sheet S2. The Engineer may designate additional locations to be repaired in the field. The unit bid price for "Stringer Repair" shall include the cost of all materials, labor, equipment, tools, falsework, and incidentals to remove the existing web connection angles and install the proposed web connection angles and plates.

SECTION B-B

LEGEND



Denotes member or connection to be removed and/or replaced

REVISION		DATE	
DATE: 11-3-20	CHECKED E	3Y	
DESIGNED BY: K. Compton	T. Baker		
DETAILED BY: J. Corley	K. Compton		
Commonwealth of Kentucky			

DEPARTMENT OF HIGHWAYS

ELLÏOTT

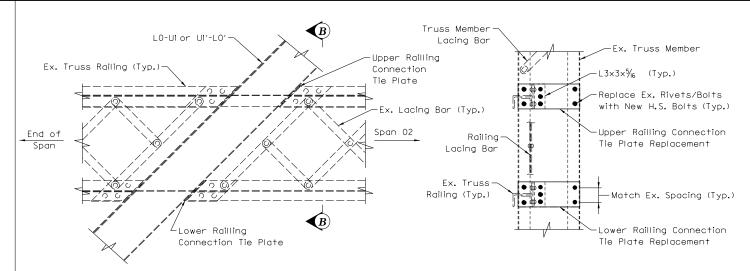
CR-1206 LITTLE SANDY RIVER

STEEL REPAIR B

BRIDGE NUMBER

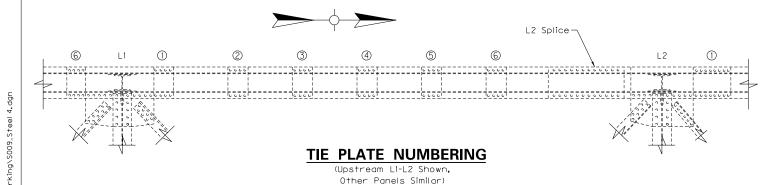
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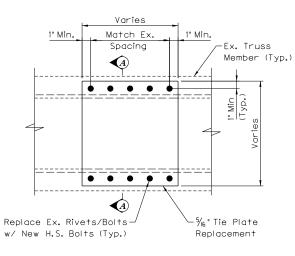


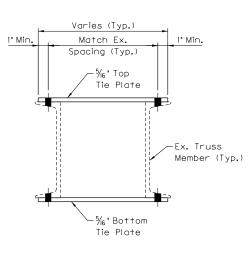


TYPICAL RAILING CONNECTION TO END POST

SECTION B-B







TYPICAL TIE PLATE REPAIR PLAN

SECTION A-A

STEEL REPAIR D - STEEL TIE PLATE REPLACEMENT

This repair shall consist of replacing a truss member tie plate, in the locations noted and in accordance with the Special Note for Structural Steel Repair. Locations to be repaired are listed in the Steel Repair Table on Sheet S2. Tie plates are numbered South to North between panel points (see Tie Plate Numbering Detail). The Engineer may designate additional locations to be repaired in the field. The contractor shall remove and fully replace one tie plate prior to removing another within 25 feet. The unit bid rice for "Steel Tie Plate Replacement' shall include the cost of all materials, labor, equipment, tools, falsework, and incidentals to remove and replace the existing plates.

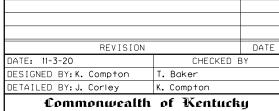
STEEL REPAIR C - BOLT / RIVET REPLACEMENT

This repair shall consist of replacing all loose, significantly deteriorated, or missing rivets or bolts throughout the truss span (Span 02), in kind (size and length) with new H.S. bolts as directed by the Engineer. This work is for the replacement of bolts and rivets that are not included with other repair details. The approximate number of existing rivets and bolts to be replaced is 200.

The Engineer shall designate allrivet or bolt replacement locations in the field. This work shall be bid with the contingency that quantities may be increased or decreased by the Engineer.

The unit price bid for each rivet or bolt replacement as described above shall include the cost of all materials, labor, access, falsework, equipment, and incidentals to complete the work.

The contractor shall remove and fully replace one bolt or rivet prior to removing another within $25\ \text{feet.}$



DEPARTMENT OF HIGHWAYS

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CR-1206 LITTLE SANDY RIVER

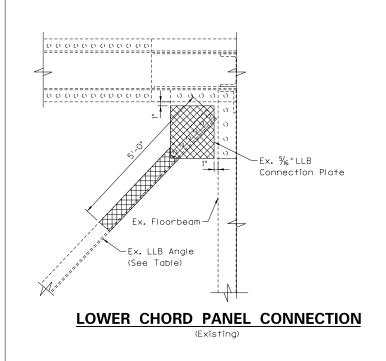
STEEL REPAIRS C & D

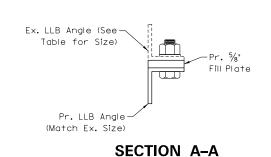
BRIDGE NUMBER

032C00032N







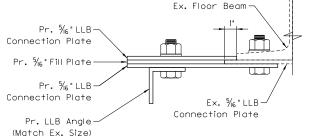


Pr. LLB Angle-

(Match Ex. Size)

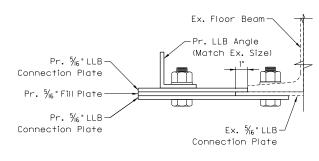
Ex. LLB Angle-

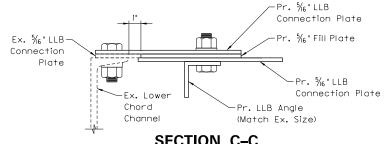
(See Table for Size)



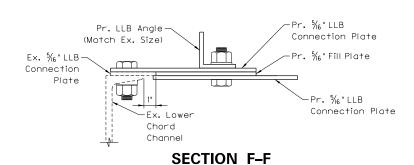
SECTION B-B

SECTION E-E





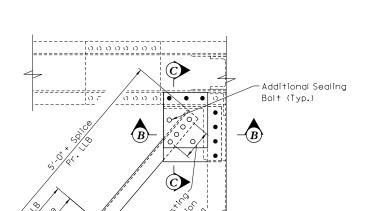
SECTION C-C



SECTION D-D

Fill Plate



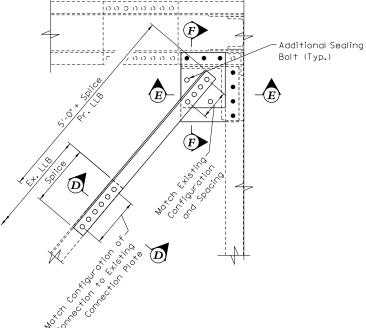


LOWER CHORD PANEL CONNECTION

(Locations with Ex. LLB Angle Oriented Up)

(Proposed)

STEEL REPAIR E - LOWER LATERAL BRACING REPAIR



LOWER CHORD PANEL CONNECTION

(Locations with Ex. LLB Angle Oriented Down)

(Proposed)

NOTES

- 1. LLB = Lower Laterial Bracing
- 2. LLB angle sizes and number of connectors per connection from LLB to connection plate varies per panel point. Location with 3" LLB and 4 connectors shown. See LLB Angle Table for information on other locations.

LEGEND



Denotes removal

- O Indicates New H.S. Bolts in New Shop or Field drilled Holes
- Indicates New H.S. Bolts in Existing holes



Panel	Ex. LLB Angle Size	Connector Rows	Connectors Per Row
LO-L1	$L5 \times 3 \frac{1}{2} \times \frac{7}{16}$	2*	8
L1-L2	L5×3×¾	2*	7
L2-L3	$L3^{1}/_{2} \times 3 \times \frac{3}{8}$	1	6
L3-L4	L3×3×%6	1	4
L4-L3′	L3×3×5/16	1	4
L3'-L2'	L31/2×3×3/8	1	6
L2'-L1'	L5×3×¾	2*	7
L1'-L0'	L5×3½×¾6	2*	8

LLB Angle Table

* Staggered Rows

REVISION		DATE	
DATE: 11-3-20	CHECKED BY		
DESIGNED BY: K. Compton	T. Baker		
DETAILED BY: J. Corley	K. Compton		
Commonwealth of Kentucku			

DEPARTMENT OF HIGHWAYS

ELLIOTT

CR-1206 LITTLE SANDY RIVER

STEEL REPAIR E

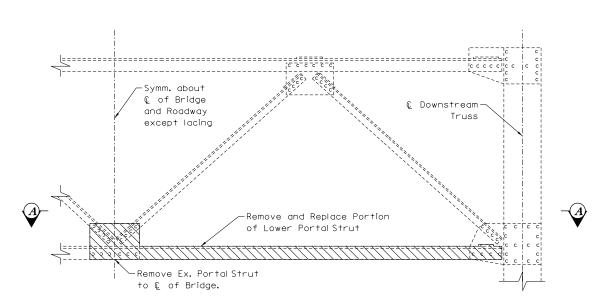
BRIDGE NUMBER

AECOM 032C00032N



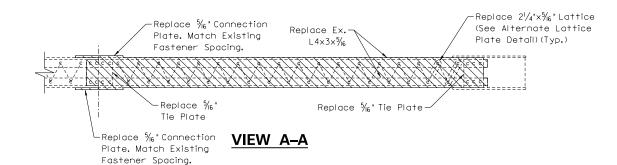
plates, in the locations noted and in accordance with the Special Note for Structural Steel Repair. Locations to be repaired are listed in the Steel Repair Table on Sheet S2. The Engineer may designate additional locations to be repaired in the field. Repairs at multiple panel points shall not be performed simultaneously or in conjunction with Steel Repairs F or G. Repairs shall not be performed if wind speeds are anticipated to be greater than 20 mph. The unit bid price for "Lower Lateral Bracing Repair" shall include the cost of all materials, labor, falsework, equipment, and incidentals to remove the existing portions of the lower lateral bracing and connection plate and install the proposed plates and angles.

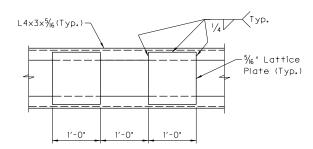
This repair shall consist of replacement of portions of the lower lateral bracing angles and connection



SOUTH PORTAL STRUT ELEVATION

(Looking North)



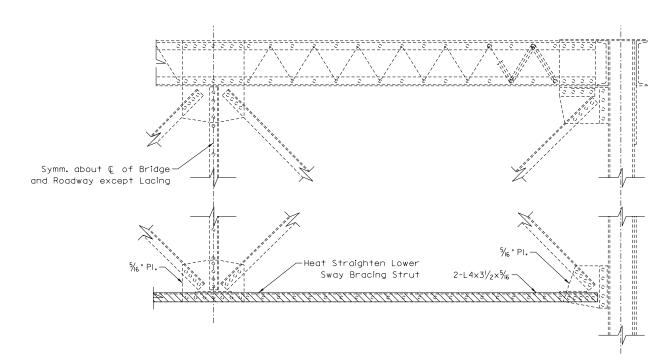


ALTERNATE LATTICE PLATE DETAIL

Contractor may replace lattice bars in-kind or use the alternate lattice plate detail. See Special Note for Structural Steel Repair.

STEEL REPAIR F - PORTAL REPAIR

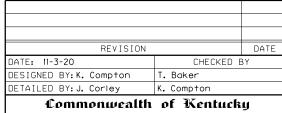
This repair shall consist of removing and replacing damaged portions of the south portal strut in kind and in accordance with the Special Note for Structural Steel Repair. Repair shall not be performed in conjunction with Repairs E or G. Repair shall not be performed if wind speeds are anticipated to be greater than 20 mph. The unit bid price for "Steel Repair - Portal Repair' shall include the cost of all materials, labor, equipment, tools, falsework, and incidentals to complete the work.



SWAY BRACING ELEVATION

STEEL REPAIR G - SWAY BRACING REPAIR

This repair shall consist of heat straightening distorted sway bracing struts in accordance with the Special Note for Heat Straightening. Repairs at multiple panel points shall not be performed simultaneously or in conjunction with Repairs E or F. Repair shall not be performed if wind speeds are anticipated to be greater than 20 mph. The unit bid price for "Steel Repair - Sway Bracing Repair" shall include the cost of all materials, labor, equipment, tools, falsework, and incidentals to complete the work.



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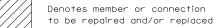
CR-1206 LITTLE SANDY RIVER

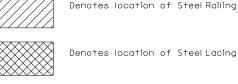
STEEL REPAIRS F & G

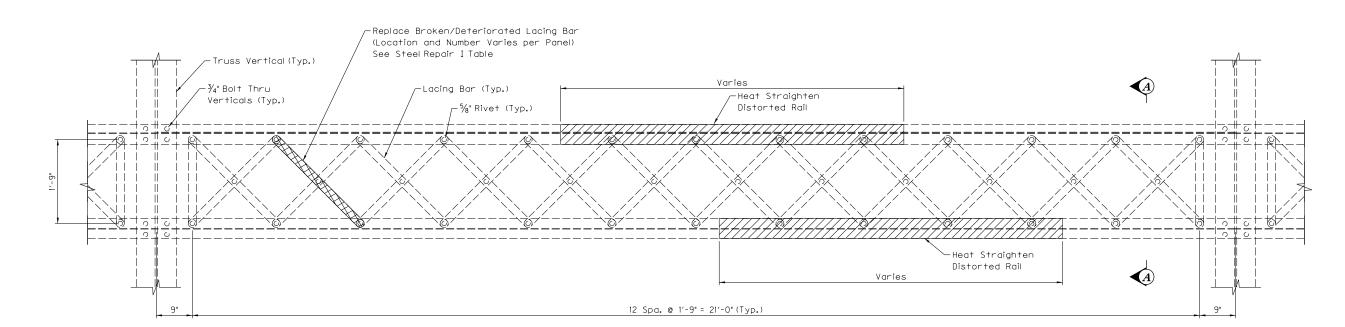
BRIDGE NUMBER
032C00032N

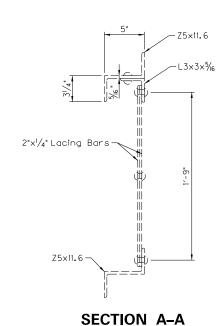












TYPICAL RAILING PANEL ELEVATION

STEEL REPAIR I DATA

STEEL REPAIR I DATA			
Panel	Approx. No	. Required	
Fullel	DS	US	
LO-L1	7	4	
L1-L2	12	1	
L2-L3	14	7	
L3-L4	14	5	
L4-L3′	12	3	
L3'-L2'	5	6	
L2'-L1'	13	11	
L1'-L0'	8	8	
Total	130		

Note: Location and number show in table is an approximate. Actual location and number of repairs shall be designated by the Engineer in the field.

STEEL REPAIR H - STEEL RAILING STRAIGHTENING

This repair shall consist of straightening a deformed truss railing as shown and in accordance with the Special Note for Heat Straightening. Areas to be repaired shall be designated by the Engineer in the field. The unit bid price for "Steel Railing Straightening" shall include the cost of all materials, labor, equipment, tools, falsework, and incidentals to heat straighten one rail section (top or bottom) between panel points.

STEEL REPAIR I - STEEL LACING BAR REPLACEMENT

This repair shall consist of replacing a steel lacing bar in the truss railing as shown and in accordance with the Special Note for Structural Steel Replacement. Areas to be repaired shall be designated by the Engineer in the field. The unit bid price for "Steel Lacing Bar Replacement" shall include the cost of all materials, labor, equipment, tools, falsework, and incidentals to remove and replace one lacing bar.

REVISION		DATE
DATE: 11-3-20	CHECKED E	3 Y
DESIGNED BY: K. Compton	T. Baker	
DETAILED BY: J. Corley	K. Compton	
e	. 6 707 6 1.	

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LITTLE SANDY RIVER CR-1206

STEEL REPAIR H & I

BRIDGE NUMBER

032C00032N

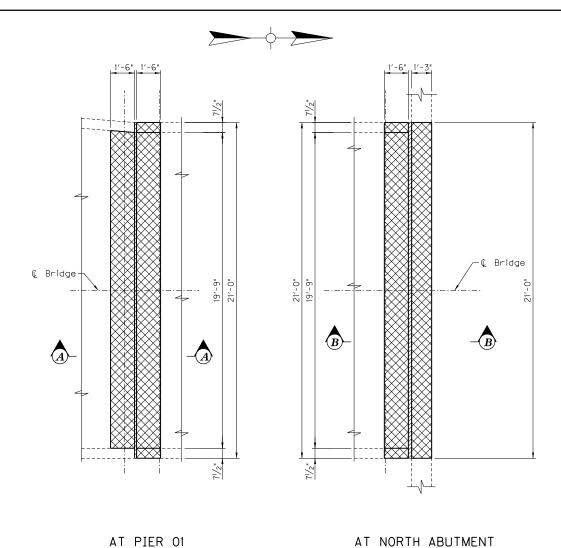




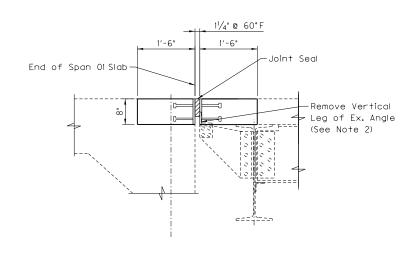


Denotes location of Steel Railing Straightening

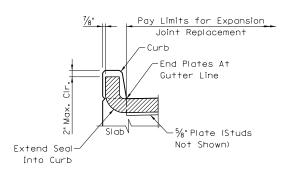
Denotes location of Steel Lacing Bar Replacement



EXPANSION JOINT REPLACEMENT PLAN



SECTION B-B SECTION A-A



PARTIAL SECTION THRU EXPANSION JOINT AT CURB

2"@ 60°F

End of Span 02 Slab

/Joint Seal

-5%" Armored Edge

-Remove Vertical Leg of Ex. Angle

(See Note 2)

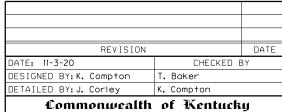
LEGEND



Limits of Remove and Replacement, See Note 2

NOTES

- 1. For additional notes and details, see Std. Dwgs. BJE-001-14, BJE-003, BJE-005, and BJE-006.
- 2. Reseal joints in truss deck over interior floorbeams in accordance with the Special Note for Joint Seal Replacement.



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EXPANSION JOINT DETAILS

BRIDGE NUMBER 032C00032N



